

Jean-Pierre Nadal

List of Publications by Year in descending order

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70
papers

2,377
citations

304743

22
h-index

223800

46
g-index

74
all docs

74
docs citations

74
times ranked

1793
citing authors

#	ARTICLE	IF	CITATIONS
1	Confidence-Controlled Hebbian Learning Efficiently Extracts Category Membership From Stimuli Encoded in View of a Categorization Task. <i>Neural Computation</i> , 2022, 34, 45-77.	2.2	2
2	Categorical Perception: A Groundwork for Deep Learning. <i>Neural Computation</i> , 2021, , 1-39.	2.2	3
3	Nonlinear neural network dynamics accounts for human confidence in a sequence of perceptual decisions. <i>Scientific Reports</i> , 2020, 10, 7940.	3.3	4
4	Residential income segregation: A behavioral model of the housing market. <i>Journal of Economic Behavior and Organization</i> , 2019, 159, 15-35.	2.0	21
5	Perceptual Decision-Making: Biases in Post-Error Reaction Times Explained by Attractor Network Dynamics. <i>Journal of Neuroscience</i> , 2019, 39, 833-853.	3.6	17
6	Epidemiological modelling of the 2005 French riots: a spreading wave and the role of contagion. <i>Scientific Reports</i> , 2018, 8, 107.	3.3	41
7	Cerebellar learning using perturbations. <i>ELife</i> , 2018, 7, .	6.0	41
8	Modeling Language Change: The Pitfall of Grammaticalization. <i>Lecture Notes in Morphogenesis</i> , 2017, , 49-72.	0.2	0
9	Residential Income Segregation: A Behavioral Model of the Housing Market. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	2
10	A model of riots dynamics: Shocks, diffusion and thresholds. <i>Networks and Heterogeneous Media</i> , 2015, 10, 443-475.	1.1	23
11	Complexité du codage neuronal. , 2014, , .		0
12	Pricing of Goods with Bandwagon Properties: The Curse of Coordination. <i>New Economic Windows</i> , 2014, , 229-232.	1.0	1
13	Entanglement Between Demand and Supply in Markets with Bandwagon Goods. <i>Journal of Statistical Physics</i> , 2013, 151, 494-522.	1.2	6
14	Categorical perception in monkeys: modeling implicit learning of discrete categories. <i>BMC Neuroscience</i> , 2013, 14, P288.	1.9	0
15	Modeling urban housing market dynamics: Can the socio-spatial segregation preserve some social diversity?. <i>Journal of Economic Dynamics and Control</i> , 2013, 37, 1300-1321.	1.6	16
16	Manifesto de Ciência Social Computacional. <i>Media&Tempus: Revista De Ciências Sociais</i> , 2013, 18, 20.	0.1	1
17	Storage of Correlated Patterns in Standard and Bistable Purkinje Cell Models. <i>PLoS Computational Biology</i> , 2012, 8, e1002448.	3.2	40
18	Manifesto of computational social science. <i>European Physical Journal: Special Topics</i> , 2012, 214, 325-346.	2.6	266

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19	Between Order and Disorder: A "Weak Law" on Recent Electoral Behavior among Urban Voters?. PLoS ONE, 2012, 7, e39916.	2.5	15
20	Perception of categories: From coding efficiency to reaction times. Brain Research, 2012, 1434, 47-61.	2.2	14
21	Disentangling collective trends from local dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7629-7634.	7.1	7
22	Self-organised critical hot spots of criminal activity. European Journal of Applied Mathematics, 2010, 21, 371-399.	2.9	51
23	Modelling the individual and collective dynamics of the propensity to offend. European Journal of Applied Mathematics, 2010, 21, 421-440.	2.9	7
24	Schelling segregation in an open city: A kinetically constrained Blume-Emery-Griffiths spin-1 system. Physical Review E, 2010, 81, 066120.	2.1	33
25	MATHEMATICS AND COMPLEXITY IN LIFE AND HUMAN SCIENCES. Mathematical Models and Methods in Applied Sciences, 2010, 20, 1391-1395.	3.3	26
26	DISCRETE CHOICES UNDER SOCIAL INFLUENCE: GENERIC PROPERTIES. Mathematical Models and Methods in Applied Sciences, 2009, 19, 1441-1481.	3.3	41
27	Crime and punishment: the economic burden of impunity. European Physical Journal B, 2009, 68, 133-144.	1.5	26
28	Phase diagram of a Schelling segregation model. European Physical Journal B, 2009, 70, 293-304.	1.5	82
29	Neural coding of categories: information efficiency and optimal population codes. Journal of Computational Neuroscience, 2008, 25, 169-187.	1.0	21
30	Collective states in social systems with interacting learning agents. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4903-4916.	2.6	10
31	Modelling collective phenomena in neuroscience. Interdisciplinary Science Reviews, 2007, 32, 177-184.	1.4	3
32	What can we learn from synaptic weight distributions?. Trends in Neurosciences, 2007, 30, 622-629.	8.6	147
33	The acquisition of allophonic rules: Statistical learning with linguistic constraints. Cognition, 2006, 101, B31-B41.	2.2	97
34	Chapter 8 Choice under Social Influence: Effects of Learning Behaviours on the Collective Dynamics. Contributions To Economic Analysis, 2006, 280, 177-203.	0.1	6
35	Seller's dilemma due to social interactions between customers. Physica A: Statistical Mechanics and Its Applications, 2005, 356, 628-640.	2.6	27
36	Identifying genes from up-down properties of microarray expression series. Bioinformatics, 2005, 21, 3859-3864.	4.1	22

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37	Heterogeneity and feedback in an agent-based market model. Journal of Physics Condensed Matter, 2005, 17, S1259-S1268.	1.8	38
38	Multiple equilibria in a monopoly market with heterogeneous agents and externalities. Quantitative Finance, 2005, 5, 557-568.	1.7	52
39	Pre-attentive segmentation of oriented textures. Journal of Geophysics and Engineering, 2004, 1, 312-326.	1.4	1
40	Optimal Information Storage and the Distribution of Synaptic Weights. Neuron, 2004, 43, 745-757.	8.1	186
41	Social Interactions in Economic Theory: An Insight from Statistical Mechanics. , 2004, , 335-358.		18
42	Neuroscience and computation. Journal of Physiology (Paris), 2003, 97, 387-390.	2.1	2
43	Orientalional minimal redundancy wavelets: from edge detection to perception. Vision Research, 2003, 43, 1061-1079.	1.4	12
44	Rigorous Bounds to Retarded Learning. Physical Review Letters, 2002, 88, 099801.	7.8	1
45	An Algorithm for Image Representation as Independent Levels of Resolution. Lecture Notes in Computer Science, 2002, , 1213-1218.	1.3	0
46	Blind source separation with time-dependent mixtures. Signal Processing, 2000, 80, 2187-2194.	3.7	7
47	Independent component analysis of multivariate time series: Application to the tropical SST variability. Journal of Geophysical Research, 2000, 105, 17437-17455.	3.3	55
48	Unsupervised and supervised learning: Mutual information between parameters and observations. Physical Review E, 1999, 59, 3344-3360.	2.1	4
49	Analyse de séries temporelles géophysiques et théorie de l'information: L'analyse en composantes indépendantes. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 1999, 328, 569-575.	0.2	1
50	Mutual Information, Fisher Information, and Population Coding. Neural Computation, 1998, 10, 1731-1757.	2.2	277
51	Modeling memory: what do we learn from attractor neural networks?. Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie, 1998, 321, 249-252.	0.8	4
52	Self-Similarity Properties of Natural Images Resemble Those of Turbulent Flows. Physical Review Letters, 1998, 80, 1098-1101.	7.8	75
53	Nonlinear feedforward networks with stochastic outputs: infomax implies redundancy reduction. Network: Computation in Neural Systems, 1998, 9, 207-217.	3.6	19
54	Redundancy Reduction and Independent Component Analysis: Conditions on Cumulants and Adaptive Approaches. Neural Computation, 1997, 9, 1421-1456.	2.2	27

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55	Information processing by a noisy binary channel. Network: Computation in Neural Systems, 1997, 8, 405-424.	3.6	4
56	Maximization of mutual information in a linear noisy network: a detailed study. Network: Computation in Neural Systems, 1995, 6, 449-468.	3.6	11
57	Asymptotic performances of a constructive algorithm. Neural Processing Letters, 1995, 2, 1-4.	3.2	1
58	Maximization of mutual information in a linear noisy network: a detailed study. Network: Computation in Neural Systems, 1995, 6, 449-468.	3.6	10
59	NEURAL NETWORKS AS OPTIMAL INFORMATION PROCESSORS. International Journal of Modern Physics C, 1994, 05, 855-862.	1.7	2
60	TRIO LEARNING: A NEW STRATEGY FOR BUILDING HYBRID NEURAL TREES. International Journal of Neural Systems, 1994, 05, 259-274.	5.2	17
61	Nonlinear neurons in the low-noise limit: a factorial code maximizes information transfer. Network: Computation in Neural Systems, 1994, 5, 565-581.	3.6	173
62	Formal Neural Networks: From Supervised to Unsupervised Learning. , 1994, , 147-166.		4
63	Nonlinear neurons in the low-noise limit: a factorial code maximizes information transfer. Network: Computation in Neural Systems, 1994, 5, 565-581.	3.6	122
64	Information processing by a perceptron in an unsupervised learning task. Network: Computation in Neural Systems, 1993, 4, 295-312.	3.6	22
65	A network model of the coupling of ion channels with secondary messenger in cell signalling. Network: Computation in Neural Systems, 1992, 3, 393-406.	3.6	5
66	A model for a multi-class classification machine. Physica A: Statistical Mechanics and Its Applications, 1992, 185, 428-432.	2.6	3
67	On the storage capacity with sign-constrained synaptic couplings. Network: Computation in Neural Systems, 1990, 1, 463-466.	3.6	10
68	Information storage in sparsely coded memory nets. Network: Computation in Neural Systems, 1990, 1, 61-74.	3.6	60
69	Information storage in sparsely coded memory nets. Network: Computation in Neural Systems, 1990, 1, 61-74.	3.6	23
70	On the storage capacity with sign-constrained synaptic couplings. Network: Computation in Neural Systems, 1990, 1, 463-466.	3.6	3